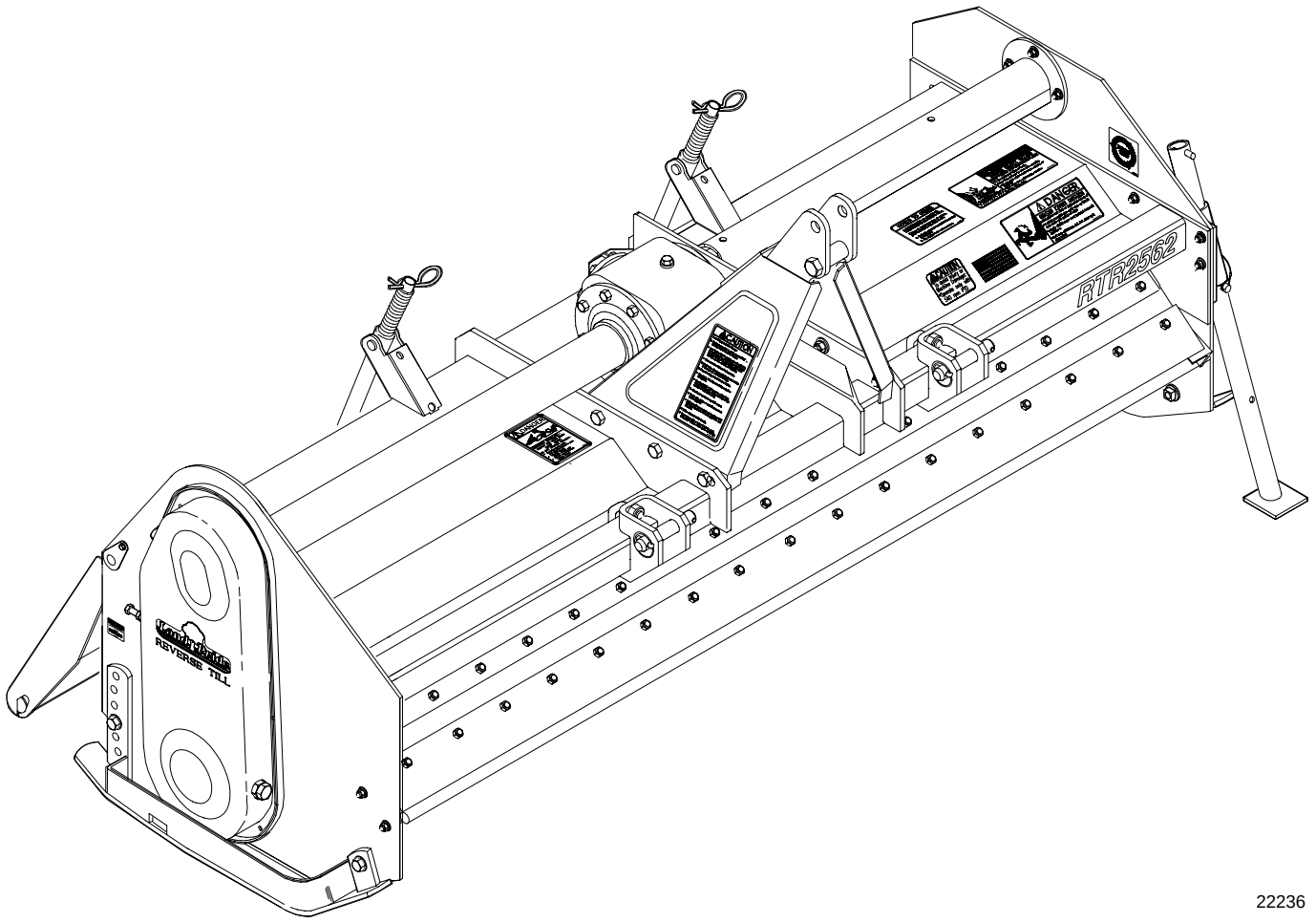
Table of Contents

Rotary Tillers

RTR2570



22236

311-251M
Operator's Manual

Read the Operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

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Cover photo may show optional equipment not supplied with standard unit.

Table of Contents 0

Important Safety Information 1

Safety at All Times 1
Look For The Safety Alert Symbol 1
Safety Labels 4

Introduction 7

Application 7
Using This Manual 7
Owner Assistance 7

Section 1: Assembly and Set-up 8

Tractor Requirements 8
Torque Requirements 8
3-Point Hitch 9
Driveline Guard 9
Front Deflector 9
Parking Stand 9
Spring Tines 9
Tractor Hook-Up 10
Driveline Installation 10
Driveline Length 11
Driveline Minimum Length 11
Driveline Maximum Allowable Length 12
Top Drive Sprocket Torquing 12
Down Pressure Kit 12

Section 2: Adjustments 13

Drive Chain 13
Skid Shoe 13
Rear Deflector & Down Pressure Kit 13

Section 3: Operating 14

Pre-Start Checklist 14
Operator's Responsibilities 14
Transporting 15
Parking 15
General Notes for Field Operations 15
General Operating Instructions 15

Section 4: Maintenance and Lubrication 16

Maintenance 16
Tine Replacement 16
Driveline Protection 16
Clutches With 4 Adjusting Nuts 16
Clutch Run-In 16
Clutch Disassembly & Assembly 17
Clutches With 8 Hex Socket Bolts 18
Clutch Run-In 18
Clutch Disassembly & Assembly 18
Storage 19
Lubrication 20
Driveline U-Joint 20
Driveline Shaft 20
Bearing on Left End of Rotor Shaft 20
Chaincase 21
Gearbox 21

Section 5: Specifications & Capacities .22

Section 6: Features & Benefits 23

Section 7: Troubleshooting 24

Section 8: Appendix 25

Torque Values Chart 25
Notes 26
Warranty 27

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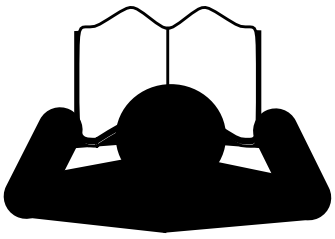
These are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

- ▲ Operator should be familiar with all functions of the unit.
- ▲ Operate implement from the driver's seat only.
- ▲ Make sure all guards and shields are in place and secured before operating implement.
- ▲ Do not leave tractor or implement unattended with engine running.
- ▲ Dismounting from a moving tractor could cause serious injury or death.
- ▲ Do not allow anyone to stand between the tractor and implement while backing up to the implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ Wear snug fitting clothing to avoid entanglement with moving parts.
- ▲ Watch out for wires, trees, etc., when raising implement. Make sure all persons are clear of working area.
- ▲ Turning tractor too tight may cause implement to ride up on wheels. This could result in injury or equipment damage.
- ▲ Do not carry passengers on implement at any time.



Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

A Signal word designates a degree or level of hazard seriousness. The signal words are:

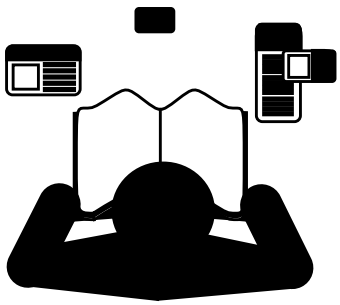
DANGER
Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

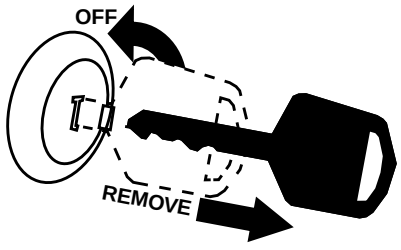
For Your Protection

- ▲ Thoroughly read and understand the "Safety Label" section, read all instructions noted on them.



Shutdown and Storage

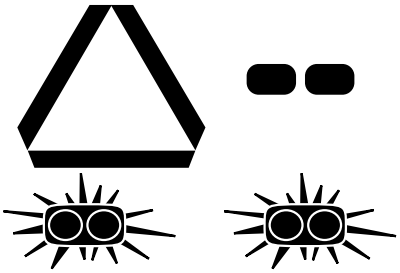
- ▲ Lower machine to ground, put tractor in park, turn off engine, and remove the key.
- ▲ Detach and store implements in a area where children normally do not play. Secure implement by using blocks and supports.



These are common practices that may or may not be applicable to the products described in this manual.

Use Safety Lights and Devices

- ▲ Slow moving tractors, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.

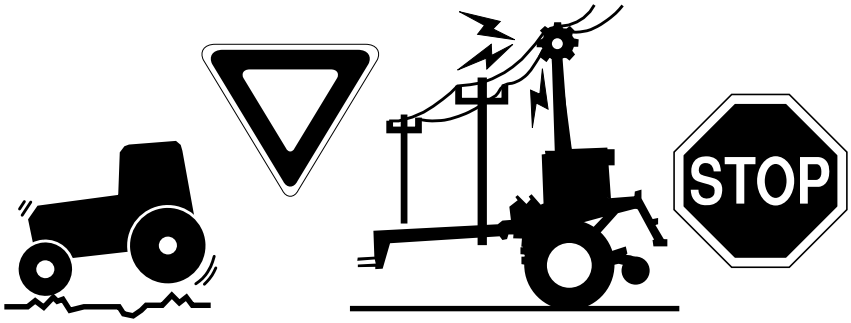


Transport Machinery Safely

- ▲ Comply with state and local laws.
- ▲ Maximum transport speed for implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrain require a slower speed.
- ▲ Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.
- ▲ Use the following maximum speed - tow load weight ratios as a guideline:

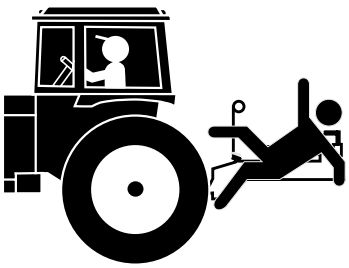
  20 mph when weight is less than or equal to the weight of tractor.

  10 mph when weight is double the weight of tractor.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of tractor.



Keep Riders Off Machinery

- ▲ Riders obstruct the operator's view, they could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children to operate equipment.



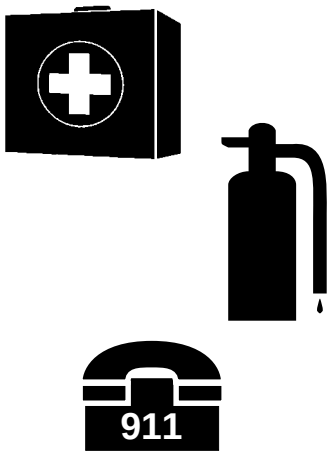
Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- ▲ Work in a clean dry area.
- ▲ Lower the implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- ▲ Allow implement to cool completely.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Inspect all parts. Make sure parts are in good condition & installed properly.
- ▲ Remove buildup of grease, oil or debris.
- ▲ Remove all tools and unused parts from implement before operation.

These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.

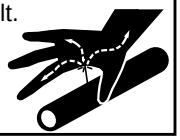


Wear Protective Equipment

- ▲ Protective clothing and equipment should be worn.
- ▲ Wear clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating equipment safely requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.

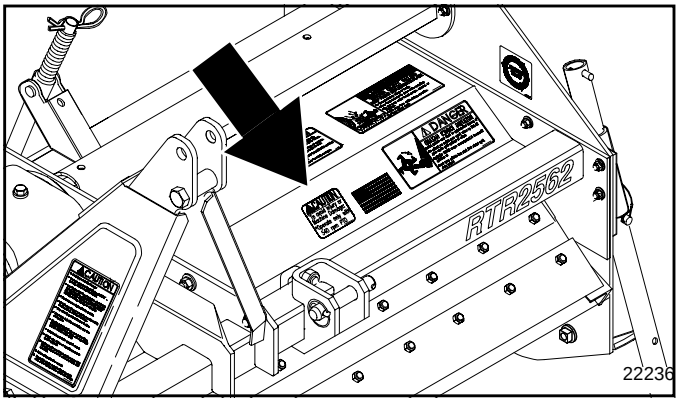
Avoid High Pressure Fluids Hazard

- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- ▲ Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be treated within a few hours or gangrene may result.



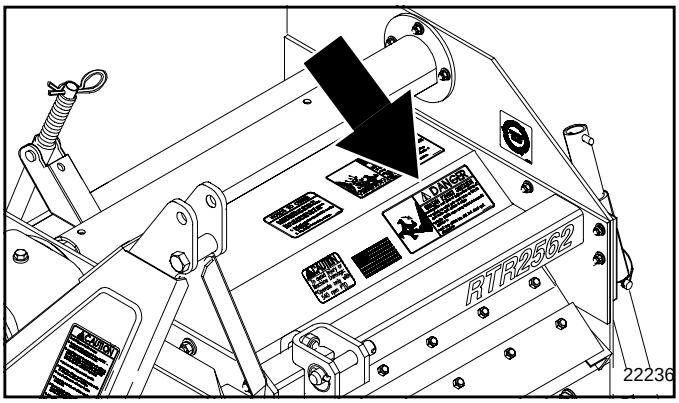
Safety Labels

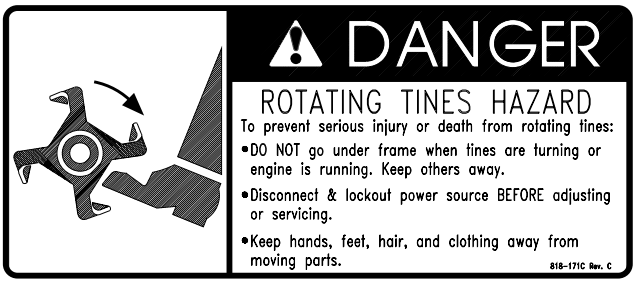
1. *Your tiller comes equipped with all safety labels in place. They were designed to help you safely operate your mower. Read and follow their directions.*
2. *Keep all safety labels clean and legible.*
3. *Replace all damaged or missing labels. To order new labels go to your Land Pride dealer.*
4. *Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request. To order new labels go to your Land Pride dealer.*
5. *Refer to this section for proper label placement. To install new labels:*
   a. *Clean the area the label is to be placed.*
   b. *Spray soapy water on the surface where the label is to be placed.*
   c. *Peel backing from label. Press firmly onto the surface.*
   d. *Squeeze out air bubbles with the edge of a credit card.*



818-130C

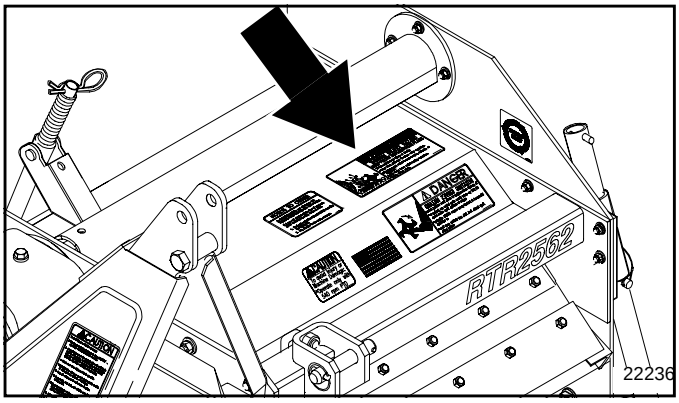
Operate only w/540rpm PTO




DANGER
ROTATING TINES HAZARD
To prevent serious injury or death from rotating tines:
•DO NOT go under frame when tines are turning or engine is running. Keep others away.
•Disconnect & lockout power source BEFORE adjusting or servicing.
•Keep hands, feet, hair, and clothing away from moving parts.
818-171C Rev. C

818-171C

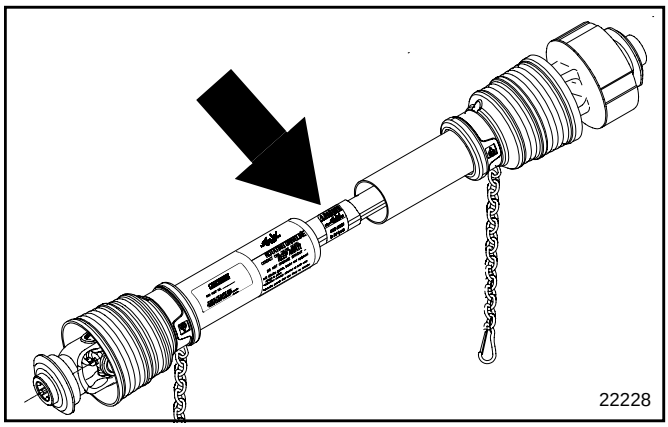
Rotating Tines Hazard!



DANGER
THROWN OBJECT HAZARD
KEEP FRONT DEFLECTOR IN PLACE
To Prevent Serious Injury or Death:
•Keep front deflector in place while operating.
•Do Not point outlet toward people, animals, or buildings.
•Stay away from outlet during operation.
•Keep others away.
818-284C Rev. A

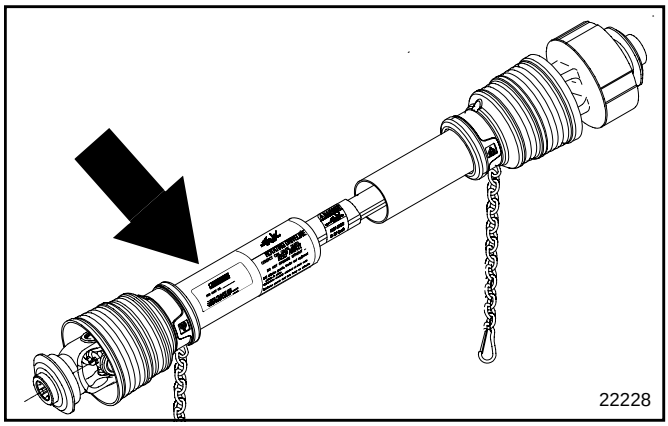
818-284C

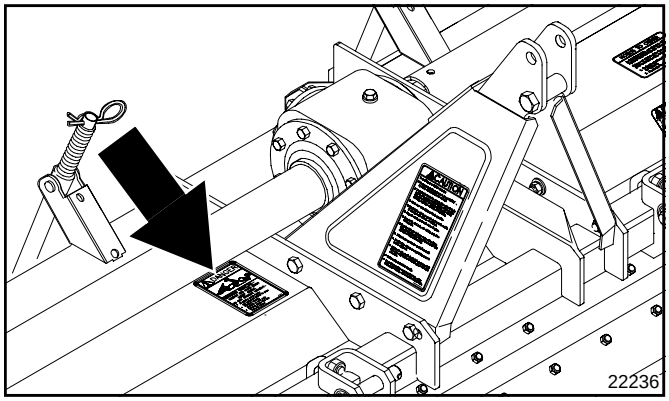
Flying Debris Hazard!



818-540C

Shield missing - Do Not operate.

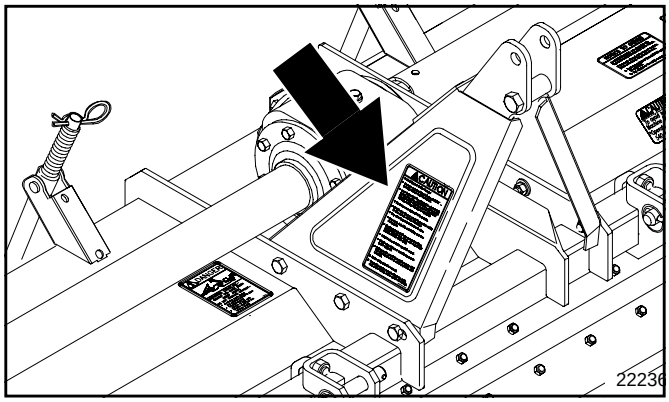


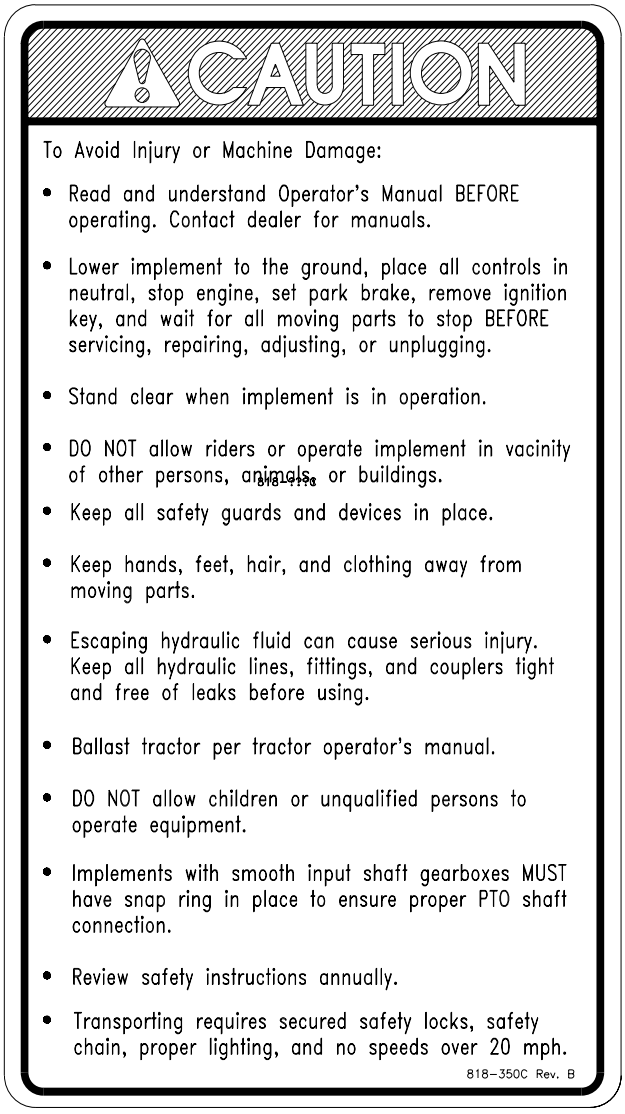


DANGER
ROTATING DRIVELINE
CONTACT CAN CAUSE DEATH
KEEP AWAY!
DO NOT OPERATE WITHOUT –
• All driveline guards, tractor and equipment shields in place
• Drivelines securely attached at both ends.
• Driveline guards that turn freely on Driveline
818-552C

818-552C

Rotating Driveline Hazard - Keep Away!




CAUTION
To Avoid Injury or Machine Damage:
• Read and understand Operator's Manual BEFORE operating. Contact dealer for manuals.
• Lower implement to the ground, place all controls in neutral, stop engine, set park brake, remove ignition key, and wait for all moving parts to stop BEFORE servicing, repairing, adjusting, or unplugging.
• Stand clear when implement is in operation.
• DO NOT allow riders or operate implement in vacinity of other persons, animals, or buildings.
• Keep all safety guards and devices in place.
• Keep hands, feet, hair, and clothing away from moving parts.
• Escaping hydraulic fluid can cause serious injury. Keep all hydraulic lines, fittings, and couplers tight and free of leaks before using.
• Ballast tractor per tractor operator's manual.
• DO NOT allow children or unqualified persons to operate equipment.
• Implements with smooth input shaft gearboxes MUST have snap ring in place to ensure proper PTO shaft connection.
• Review safety instructions annually.
• Transporting requires secured safety locks, safety chain, proper lighting, and no speeds over 20 mph.
818-350C Rev. B

818-350C

General Safety Instructions

Land Pride welcomes you to the growing family of new product owners.

This Rotary Tiller has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from the machine.

Application

The Model RTR2570 Reverse-Till Rotary Tiller is designed and built by Land Pride to till the soil for seedbed or planting preparation. The Model RTR2570 is adapted for 540rpm PTO and three-point hitch Category 1 mounting. The Model RTR2570 tiller is Quick-Hitch adaptable and are compatible with 25-55hp tractors. Reverse rotation tillers tend to achieve greater depth penetration, moving and pulverizing more soil in the process, while burying residue as opposed to leaving it on top. Model RTR2570 Land Pride Rotary Tiller has applications in landscaping, nurseries, gardens, and medium duty commercial use. See **"Features and Benefits"**, **"Section 6"** for additional information.

Using This Manual

- This Operator's Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual contact your authorized dealer. Manuals can also be downloaded, free-of-charge from our website at www.landpride.com.

Terminology

"Right" or "Left" as used in this manual is determined by facing forward in the direction the machine will operate while in use unless otherwise stated.

Definitions

NOTE: A special point of information that the operator must be aware of before continuing.

IMPORTANT: A special point of information related to its preceding topic. Land Pride's intention is that this information should be read and noted before continuing.

Owner Assistance

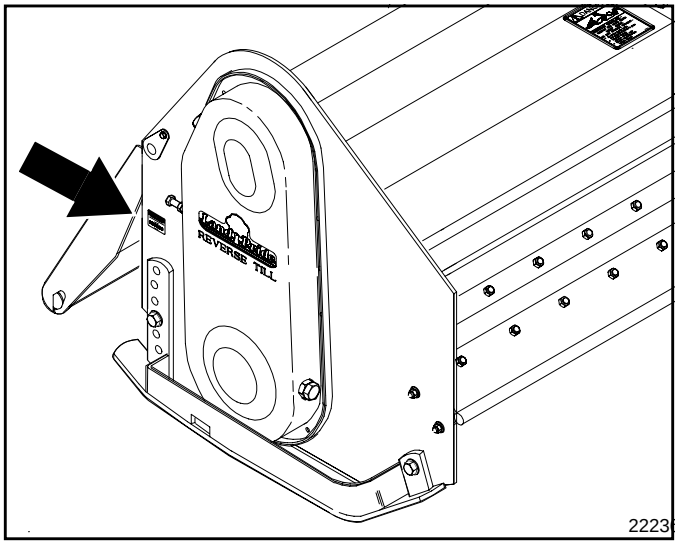
The Warranty Registration card should be filled out by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

If customer service or repair parts are required contact a Land Pride dealer. A dealer has trained personnel, repair parts and equipment needed to service the Rotary Tiller.

The parts on your Rotary Tiller have been specially designed and should only be replaced with genuine Land Pride parts. Therefore, should your Rotary Tiller require replacement parts go to your Land Pride Dealer.

Serial Number Plate

For prompt service always use the serial number and model number when ordering parts from your Land Pride dealer. Be sure to include your serial and model numbers in correspondence also. Refer to Figure 1 for the location of your serial number plate.



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new Rotary Tiller. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss the matter with your dealership service manager making sure he is aware of any problems you may have and that he has had the opportunity to assist you.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060

E-mail address
lpservicedept@landpride.com

Tractor Requirements

This tiller is designed with a 3-point category I hitch. Horsepower rating of tractor should not exceed 45 PTO horsepower on all 25 series tillers.

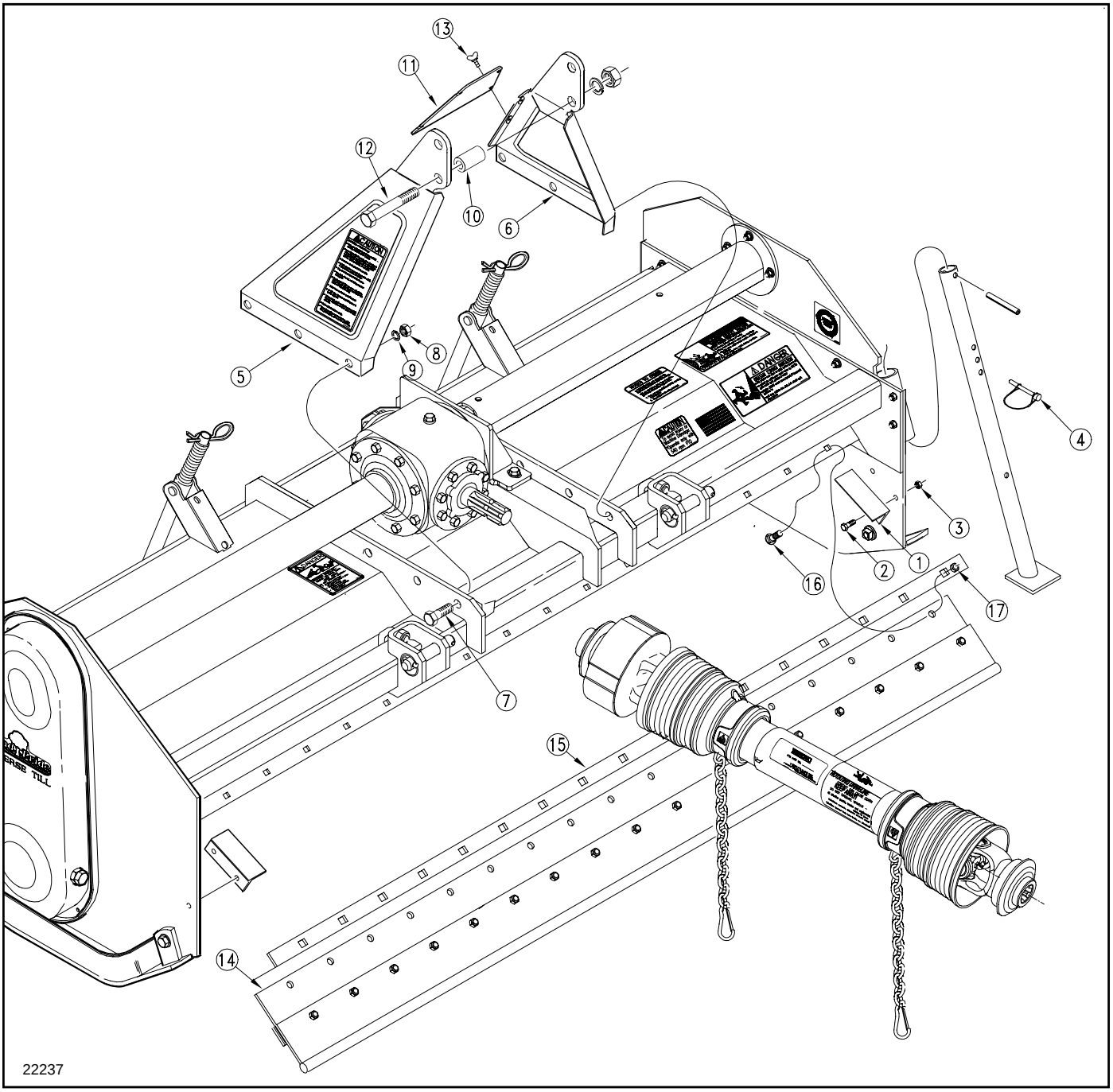
NOTE: In order to maintain steering control, ballast may have to be added to your tractor. To determine whether or not to add ballast, refer to your tractor operator's manual.

⚠ CAUTION

Do not over speed PTO or machine damage may result. This reverse rotation tiller is designed to be used with a tractor using a 540 RPM rear PTO.

Torque Requirements

Refer to "Torque Values Chart" on page 25 to determine the correct torque value when tightening hardware during assembly.



Hitch Assembly
Figure 1-1

3-Point Hitch

Refer to Figure 1-1 on page 8:

1. Install right hand and left hand top hitch halves (#5) and (#6) to the inside of the hitch mounting bars on the frame with 5/8” x 1 1/2” long bolts (#7), nuts (#8) and lock washers (#9). Do not tighten bolts at this time.
2. Insert the top hitch spacer tube (#10) between the left hand and right hand hitch as shown and secure with the 5/8” x 3 1/2” long bolt (#12), nut and lock washer.
3. Tighten all bolts referring to the *Torque Values Chart* in the **“Appendix”** section on page 25.

Driveline Guard

Refer to Figure 1-1 on page 8:

Fasten the driveline guard (#11) to the top hitch with the four wing bolts (#13).

Front Deflector

WARNING

Failure to install front deflector guides will result in damage to the front deflector!

Refer to Figure 1-1 on page 8:

1. Install front deflector guides (#1) with 5/16” x 3/4” long bolts (#2) and lock nuts (#3) on each end of the tiller frame.
2. Assemble Front Deflector (#14) to the frame with a clamp bar (#15) on the top of the front deflector. Insert the 5/16” carriage bolts (#16) from the bottom side and secure with the 5/16” lock nuts (#17).

Parking Stand

Refer to Figure 1-1 on page 8:

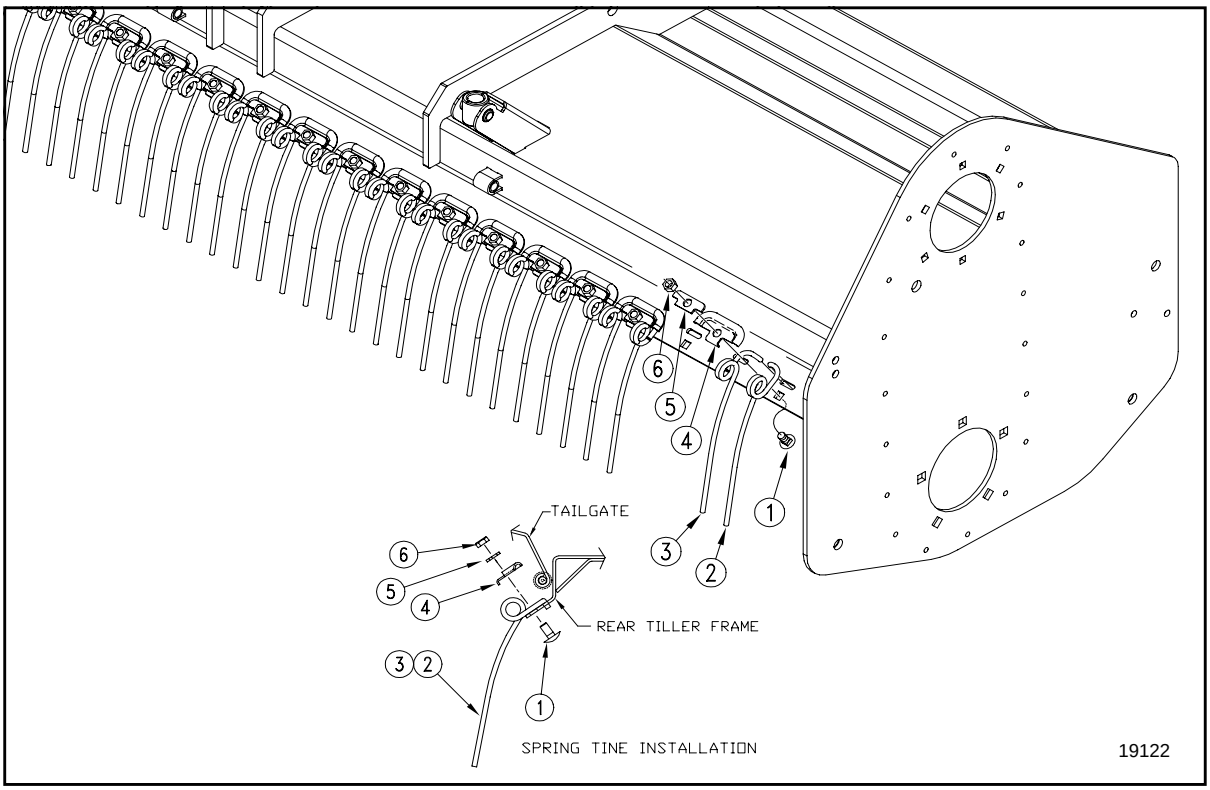
Install the parking stand through the stand bracket and adjust stand to desired height and pin with 5/16” x 2 1/2” long wire lock pin (#8).

NOTE: For parking the tiller, use the three upper holes and pin below the outer tube. When the tiller is in use, the bottom hole is used and the pin is above the outer tube.

Spring Tines

Refer to Figure 1-2:

1. Install carriage bolts (#1) from underneath side as shown.
2. Place Right Hand Spring (#2) and Left Hand Spring (#3) in slot and hold in place with clip (#4).
3. Secure with plate (#5) and lock nut (#6).



Spring Tines
Figure 1-2

Tractor Hook-Up

Refer to Figure 1-3:

1. When using tractors with multispeed PTO, be certain PTO is set for 540 RPM.
2. Back tractor up to tiller until lower 3-Point links are aligned with hitch clevises on tiller.
3. Secure the tractor's 3-Point lower links to the lower hitch clevises using 7/8" diameter hitch pins.
4. Secure the tractor's top link to the tiller top hitch using a 3/4" diameter hitch pin (supplied by customer). Adjust tractor top link in order to level the tiller.
5. Adjust the tractor's 3-Point hitch lift height so that the tiller tines are not lifted more than 14" off the ground to prevent damage to the driveline u-joints.

Driveline Installation

Refer to Figure 1-4 & Figure 1-5:

The tiller driveline is coupled to the tractor and implement shafts with either push pin couplers, pull collar couplers or a combination of both and with a slip clutch on one end for protection from shock loads.

Always engage the PTO at low engine rpm to minimize start-up torque on the driveline. **Drivelines with friction clutches must go through a "run-in" operation prior to initial use and after long periods of inactivity**. See "Section 4: Maintenance and Lubrication" on page 16 for a detailed description of maintaining the driveline.

CAUTION

Tractor PTO shield and all tiller guards must be in place at all times during operation!

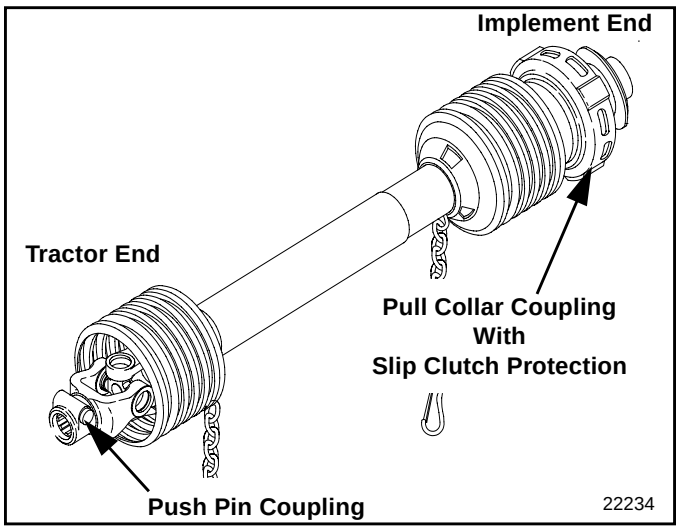


Figure 1-4

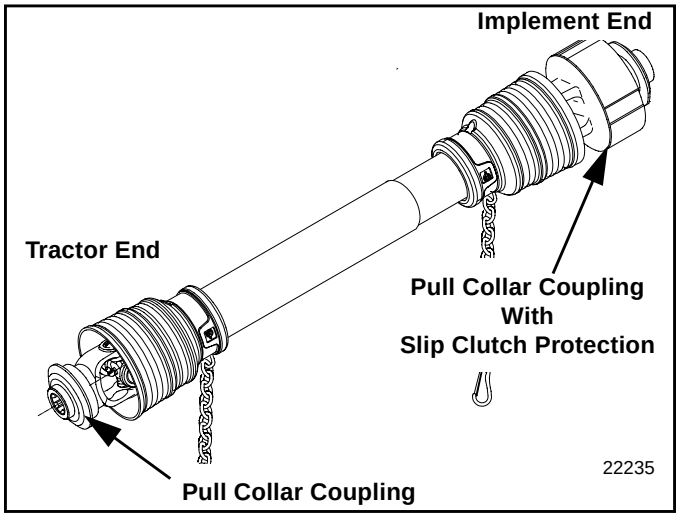
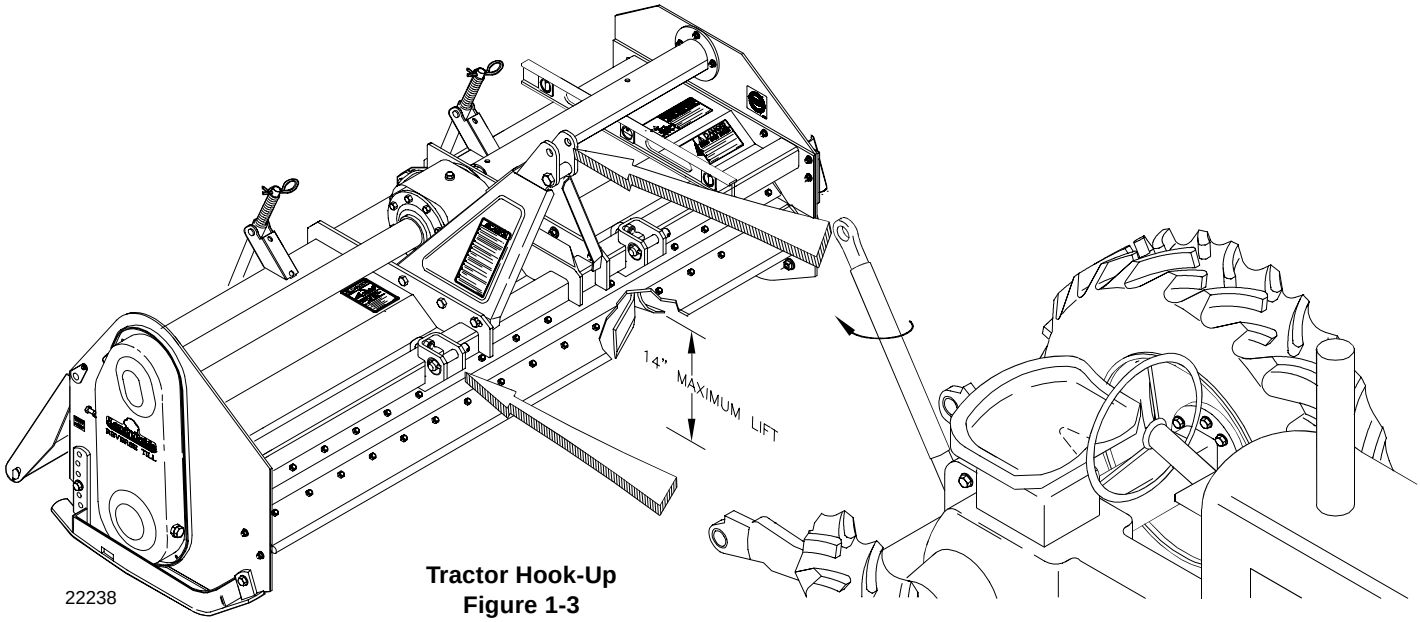


Figure 1-5



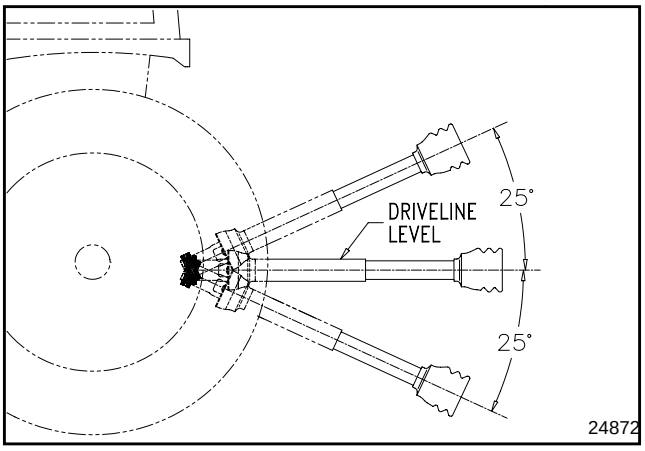
Tractor Hook-Up
Figure 1-3

If the Rotary Tiller is to be used on more than one tractor, an additional driveline may be required - especially if a quick hitch is used.

CAUTION

Do not use a PTO adaptor with a quick hitch. A PTO adapter will increase strain on the tractor's PTO shaft resulting in possible damage the shaft and driveline.

IMPORTANT: Avoid premature driveline breakdown. A driveline that is operating **must not exceed** an angle of 25 degrees up or down while operating the 3-point lift. See Figure 1-6 below.



Maximum PTO driveline Movement During Operation
Figure 1-6

Driveline Length

A driveline that is too long to fit between the implement and tractor can damage the tractor PTO housing, implement gearbox and/or driveline. Also, a driveline when fully extended must have proper overlap at the profile tubes or it may break under shock loads.

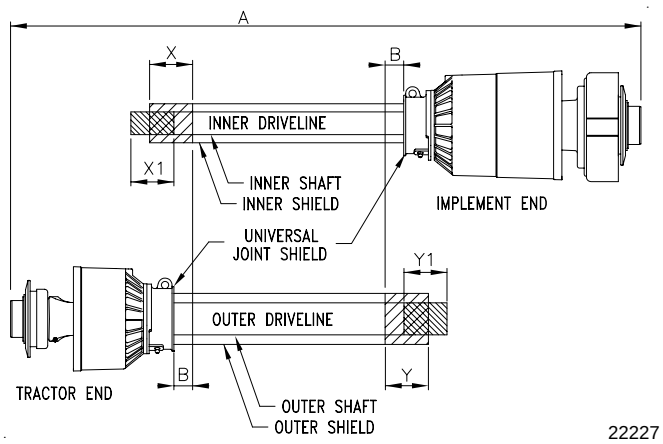
Always check driveline minimum and maximum allowable length during initial setup, when connecting to a different tractor and when alternating between using a quick hitch and a standard 3-point hitch. More than one driveline may be required to fit all applications.

Driveline Minimum Length

Refer to Figure 1-7 on page 11:

IMPORTANT: Check driveline minimum length with gearbox shaft aligned and level with the tractor's PTO shaft. This arrangement will provide the shortest distance possible between the two shafts.

1. Start tractor and slowly engaging 3-point lift to move the lower arms up or down until the gearbox shaft is aligned and level with tractor PTO shaft. Securely block Rotary Tiller up in this position.
2. Place tractor gear selector in park, shut tractor engine off, set park brake and remove switch key.



Cutting the Driveline Shafts
Figure 1-7

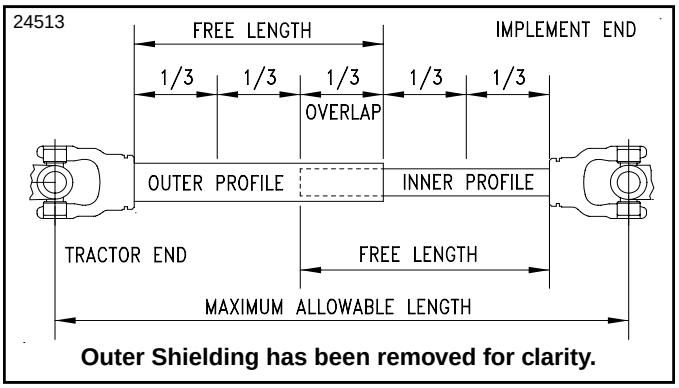
3. Attach driveline to the Rotary Tiller and tractor as follows:
   a. Slide inner yoke of driveline over the Rotary Tiller's gearbox shaft and secure with locking device of driveline.
   b. Slide outer yoke of driveline over the tractor's PTO shaft and secure with locking device of driveline.
   c. If driveline **does not fit**, continue on with step 4 below. If driveline **does fit**, skip to "Driveline Maximum Allowable Length" on this page.
4. The driveline will require shortening if it is too long to fit between the tractor and Rotary Tiller. Shorten driveline as follows:
   a. Check to make sure Rotary Tiller and tractor PTO shafts are level with each other and the tiller is securely supported at this height with support blocks.
   b. Pull driveline profiles apart into two sections as shown in Figure 1-8.
   c. Attach outer driveline universal joint to tractor PTO shaft and inner driveline universal joint to gearbox shaft. Pull on each driveline section to be sure universal joints are secured.
   d. Hold driveline sections parallel to each other to determine if they are too long. The inner and outer shields on each section should end approximately 1" short of reaching the universal joint shield on the adjacent section (see **"B"** dimension). If they are too long, measure 1" (**"B"** dimension) back from the universal joint shield and make a mark at this location on the inner and outer shields.
   e. Cut off inner shield at mark ("**X**" dimension). Cut same amount off inner shaft ("**X1**" dimension). Repeat cut off procedure ("**Y**" & "**Y1**" dimensions) to cut outer driveline half.
   f. Remove all burrs and cuttings.

Driveline Maximum Allowable Length

Refer to Figure 1-8:

Be sure to check driveline minimum length before checking driveline maximum allowable length.

Driveline maximum allowable length, when fully extended, must have a minimum overlap of profile tubes by not less than 1/3 the free length with both inner and outer profile tubes being of equal length.



Driveline Maximum Length
Figure 1-8

1. With driveline profiles pulled apart, measure and record driveline free length of each profile.
2. Apply multi-purpose grease to the inside of the outer profile and reassemble the two profiles.
3. Move driveline halves together until profile tubes overlap by 1/3 the free length. Measure and record maximum allowable length shown in Figure 1-8.
4. Attach inner driveline yoke to gearbox shaft and outer driveline yoke to tractor's PTO shaft. Secure driveline in place with driveline locking devices.
5. Move driveline back and forth to insure that both ends are secured. Reattach any end that is loose.

IMPORTANT: Two chains are supplied with the driveline. These chains must be attached to the outer and inner yoke shields and to the Rotary Tiller and tractor to keep driveline shields from rotating.

6. Hook a safety chain in the hole on the outer driveline yoke shield and its opposite end to the tractor.
7. Hook the other safety chain in the hole on the inner driveline yoke shield and its opposite end to the Rotary Tiller.
8. Start tractor and raise Rotary Tiller just enough to remove support blocks from under the Rotary Tiller.
9. Slowly engage tractor's 3-point controls to lower Rotary Tiller. Check for sufficient drawbar clearance. Move drawbar ahead, aside or remove if required.
10. Raise and lower implement to find the maximum possible extended driveline length. Check to make certain that the driveline has not extended beyond the maximum allowable length recorded in step 3.

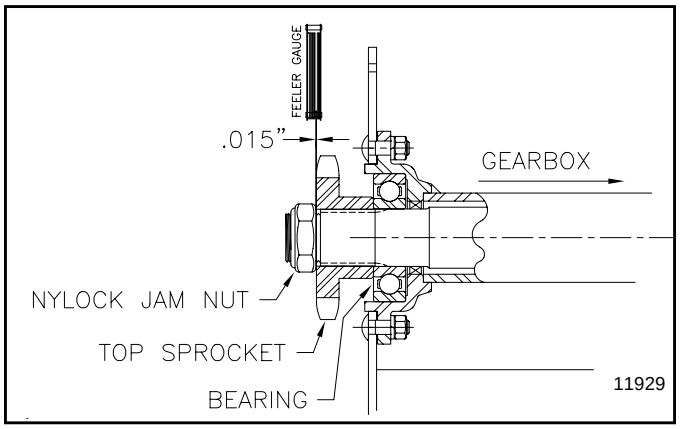
Top Drive Sprocket Torquing

Refer to Figure 1-9:

Tighten nylock jam nut all the way down until sprocket is bottomed out on bearing, refer to Figure 1-9. Back jam nut out until you can install .015" feeler gauge between sprocket and jam nut. Tighten jam nut up against feeler gauge until snug. Pull feeler gauge out and tighten jam nut 1/6 of a turn.

NOTE: The input shaft on gearbox should turn using hand pressure.

IMPORTANT: Overtightening of jam nut will cause damage to the bearing.

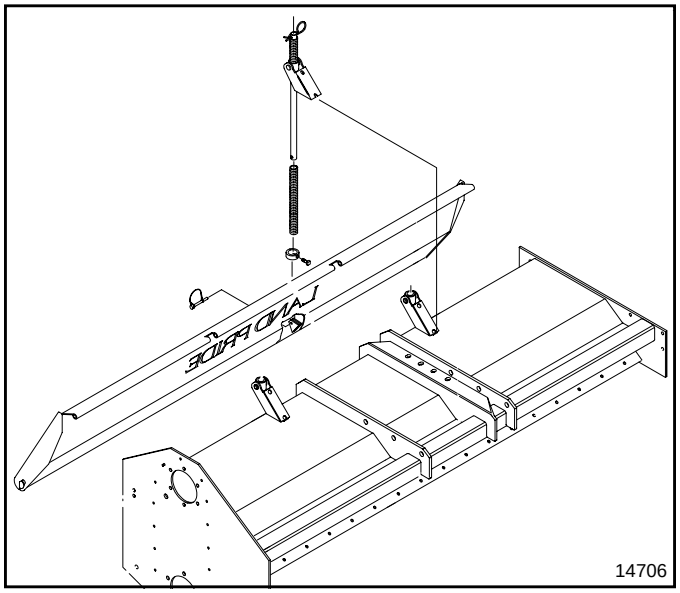


Top Drive Sprocket Assembly
Figure 1-9

Down Pressure Kit

Refer to Figure 1-10:

Spring loaded rear deflector deflects flying debris and levels the freshly tilled soil.



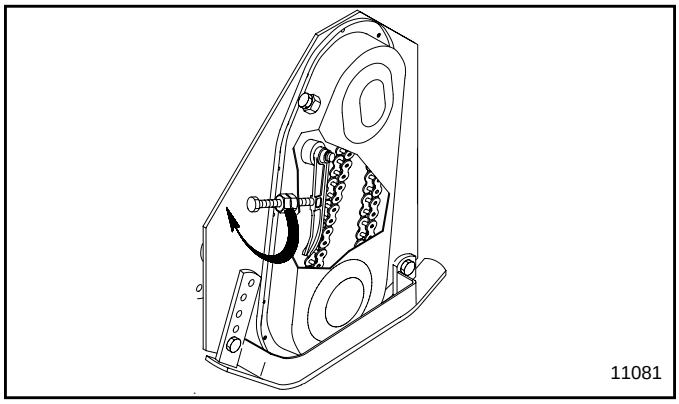
Down Pressure Kit
Figure 1-10

Drive Chain

Refer to Figure 3-1:

The tension on the drive chain can be easily adjusted by using the chain tightener stud.

Should excessive backlash occur, unscrew lock nut, turn bolt clockwise as indicated by the arrow, until idler arm is firm against chain, then back bolt off counterclockwise 1/4 turn. Re-lock nut while holding head of bolt in place. Refer to “Torque Values Chart” on page 25.



Chain Tightener
Figure 3-1

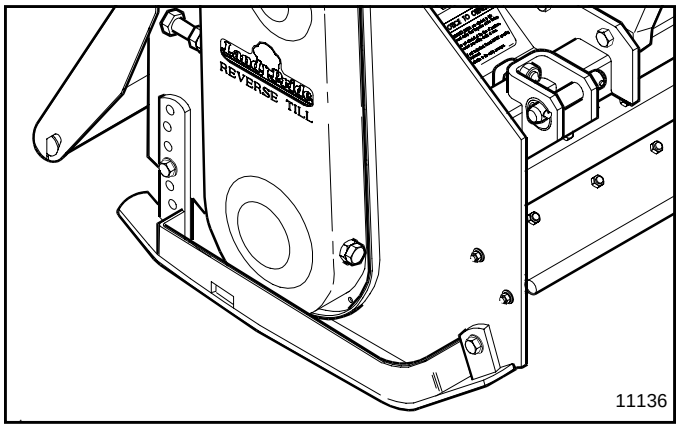
Skid Shoe

Refer to Figure 3-2:

The skid shoes can be raised or lowered for the desired tilling depth by:

1. Raise tiller off the ground and properly support.
2. Loosen pivot bolt on front of shoe.
3. Remove adjusting bolt on rear of shoe.
4. Adjust skid shoe to desired location.
5. Install adjusting bolt, and tighten both adjusting bolt and pivot bolt.

IMPORTANT: Be sure both skid shoes are adjusted the same.

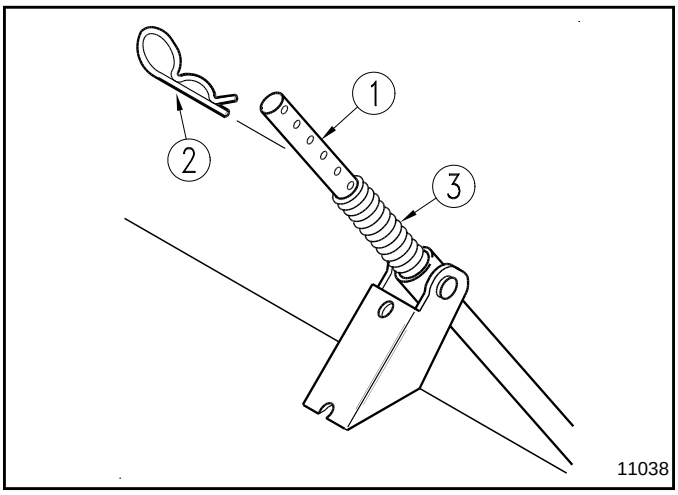


Skid Shoe Adjustment
Figure 3-2

Rear Deflector & Down Pressure Kit

Refer to Figure 3-3:

The rear deflector can be adjusted closer to the ground to produce a fine soil texture or raised to produce a coarse soil texture. Adjust spring rods (#1) and rear deflector to the desired height and then reinstall hairpin cotters (#2) in one of the top six spring rods holes above cushion springs (#3).



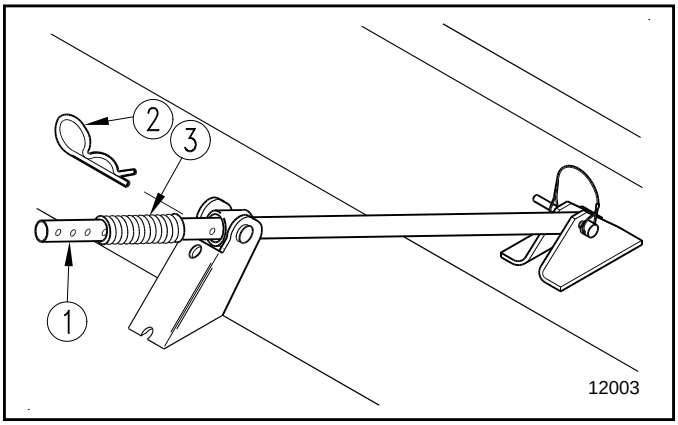
Lowered Position
Figure 3-3

Refer to Figure 3-4:

The rear deflector can be secured in the raised position for replacing spring tines. Remove hairpin cotters (#2) and raise deflector enough to reinstall hairpin cotters in 7th hole located below the cushion springs.

An optional spring kit, part no. 311-162A, is offered to allow you to apply down pressure on the rear deflector for leveling. Adjust locking collars up to compress springs to desired pressure.

NOTE: Too much pressure will cause premature wear on the rear deflector.



Raised Position
Figure 3-4

Pre-Start Checklist

Hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training involved in the operation, transport, maintenance and storage of the Rotary Tiller. Therefore, it is absolutely essential that no one operates the tiller without first having read, fully understood and become totally familiar with the Operator's Manual. Make sure the operator has completed the Operating Checklist below.

Operating Checklist

✔	Check	Page No.
	Read and follow all Safety Rules carefully. Refer to "Important Safety Information".	Page 1
	Read and follow Hook-up & preparation instructions. Refer to "Section 1: Assembly and Set-up".	Page 8
	Read and make all required adjustments. Refer to "Section 2: Adjustments".	Page 13
	Read and follow all operating procedures. Refer to "Section 3: Operating".	Page 14
	Read and follow all Maintenance Instructions. Refer to "Section 4: Maintenance and Lubrication".	Page 16
	Read and follow all Lubrication Instructions. Refer to "Lubrication".	Page 20
	Check tiller initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	Page 25

The following inspection should also be performed before beginning to till:

- Check oil level in gearbox and chaincase. Refer to *Lubrication* in the **"Maintenance and Lubrication"** section starting on page 16.
- Check that all plugs have been replaced properly in the gearbox and chaincase.
- Check drive chain tension. Refer to *Drive Chain* in the **"Adjustment**" section on page 13.
- Be sure all tiller tines, bolts and nuts are tight.
- Be certain all guards and shields are in place and secure.
- Grease driveline shaft and all other grease fittings.

Operator's Responsibilities

DANGER

Clear the area of debris before tilling. Blade impact on objects not seen can cause projectiles resulting in bodily injury or death.

DANGER

Make all hydraulic adjustments from the tractor seat. Never make adjustments while standing along side the tractor or behind the tractor.

WARNING

It is the operator's responsibility not to allow anyone near the tiller during its operation.

WARNING

Do not till on inclines exceeding 15 degrees. The action of the tines being forced down into the ground can cause tractor roll-over on steep inclines.

CAUTION

Tractor PTO shield and all tiller guards must be in place at all times during operation!

CAUTION

Do not over speed PTO or machine damage may result. This tiller is designed to be used with a tractor using a 540 rpm rear PTO.

CAUTION

Be sure that you are not working over any underground wiring, pipes, or other obstructions. If there is any doubt, call your public service agency.

CAUTION

Always engage parking brake, shut off tractor and remove key before dismounting from tractor.

- Make sure all safety labels are in their proper location and in good condition before operation. Follow all directions on the safety labels.
- Do not allow anyone to operate this tiller who has not been properly trained in its safe operation or anyone who is under the age of 16.
- Use tiller for its intended purpose only. Never carry passengers or use tiller as a wagon to carry things. Never use tiller to pull or tow other equipment or objects.
- Do not operate tiller in the raised position.
- Never work under the tiller without properly blocking the unit up.
- Clear the area of debris before tilling.
- Do not alter the tiller in a way which will adversely affects its performance or reliability or use the tiller for a purpose for which it was not designed.
- Contact your local utility services before working the soil so that they may mark the location of any under ground utilities in the area. Be sure to ask how close you can work to the marks or flags they positioned.

Transporting

IMPORTANT: Always disengage PTO before raising the tiller to transport position.

CAUTION

When traveling on public roads whether at night or during the day, use accessory light and devices for adequate warning to operators of other vehicles. Comply with all federal, state and local laws.

1. When raising tiller to transport position, be sure that driveline does not contact tractor or tiller. Adjust tractor's 3-point hitch lift height so that the tiller tines are not lifted more than 14 inches off the ground to prevent driveline damage.
2. Be sure to reduce tractor ground speed when turning; and, leave enough clearance so the tiller does not contact obstacles such as buildings, trees or fences.
3. Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
4. When traveling over rough or hilly terrain, shift tractor to a lower gear.

Parking

The following steps should be taken when preparing to store the tiller or unhitch it from the tractor.

1. Park tiller on a level, solid area.
2. Shut off tractor engine and engage parking brake.
3. Set parking stand to desired height to maintain tiller in proper height for re-hook-up and install pin to lock in place.
4. Unhitch from tractor.
5. See "Storage" on page 19 for additional information on long term storage of your tiller.

General Notes for Field Operations

1. Clear area to be tilled of rocks, branches and other foreign objects.
2. Tall grass and weeds should be mowed before tilling.
3. Operate with 540 rpm PTO tractor.
4. At first begin tilling at a slow forward speed and shift up as ground conditions warrant.
5. Operated tiller with deck level to the ground.
6. Tiller tines will cut better at a faster rotor speed than at reduced throttle.
7. Do not engage PTO at full throttle.
8. Tilling should not be done in wet conditions as soil will stick to tines.
9. After tilling the first 50 feet, stop and check to see that the tiller is adjusted properly.
10. Do not make turns or attempt to back up while tiller is in the ground. See important note below.

IMPORTANT: Turning or backing up with rotary tines in the ground will damage the tiller.

11. Do not engage PTO with machine in the fully raised or lowered position.
12. Periodically check for foreign objects wrapped around the rotor shaft and remove them after disengaging PTO, turning off tractor, and removing ignition key.

General Operating Instructions

Please complete any of the above missed steps before operating the equipment as outlined below.

Having properly prepared yourself and the tiller, it is now time to do some tilling. Clear the tilling site of all large limbs, rocks, trash, metal or extraneous debris. Carefully drive the your tractor with tiller to the site. Position the tiller offset to the left just far enough to cover the left tractor wheel tread for best results. Your tiller cannot be offset if an optional Quick Hitch is used.

Line the tractor up just to the right of center on your tillage plot. You will be working from the center out and turning to the left to line up for your next pass. Lower the tiller half way to the ground and reduce your tractor engine speed to idle. Engage the PTO and gradually increase the engine speed until you reach full PTO speed of 540 rpm. Lower Rotary Tiller to the ground and simultaneously commence forward travel of approximately 2mph. Do not make turns or attempt to back up while tiller is in the ground. See important note below.

IMPORTANT: Turning or backing up with rotary tines in the ground will damage the tiller.

Travel about 50ft. and then stop to check your results. When stopping, remember to lift the tiller out of the ground, stop the tractor, reduce engine speed, disengage the PTO, set the park brake, shut off the tractor, and remove the keys. If you are tilling too shallow or too deep, adjust the skid shoes accordingly. If the soil texture is too coarse, lower the leveling door and reduce your ground speed. If the soil texture is too fine, you will need to raise your leveling door and increase your ground speed. For any other problem conditions the may arise, you will want to refer to the Troubleshooting section of your Operator's Manual.

When you are done tilling for the day, make sure you use proper tractor shut down procedures before getting off of the tractor. If you are detaching your tiller, make sure you park it on a dry and level surface leaving it clean and ready for next use. When you put your tiller up for the season, make sure you refer to the Storage Directions in this Operator's Manual on page 19.

With a little practice and a few adjustments, you will soon be achieving the results you want with your Land Pride Rotary Tiller.

Maintenance

CAUTION

For safety reasons, each maintenance operation must be performed with the tractor's PTO disengaged, the Rotary Tiller lowered completely to the ground or on safely supported blocking, tractor engine shut off and ignition key removed.

Proper servicing and adjustment is the key to the long life of any farm implement. With careful and systematic inspection, you can avoid costly maintenance, time and repair.

After using your tiller for several hours, check all bolts to be sure they are tight.

Replace any worn, damaged or illegible safety labels by obtaining new labels form your Land Pride Dealer.

Tine Replacement

Refer to Figure 4-1:

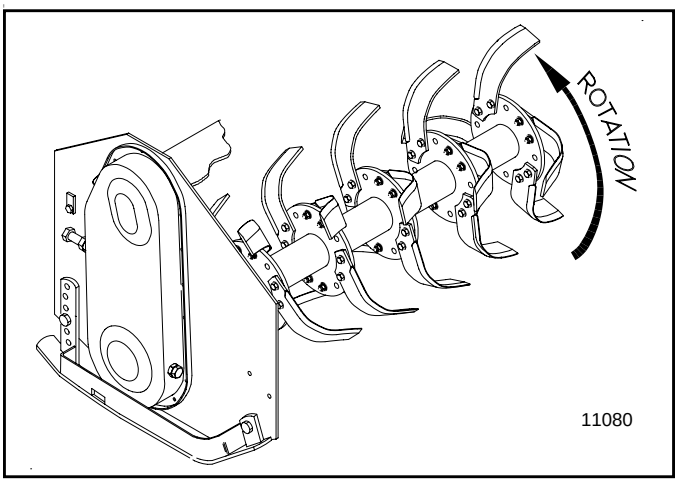
IMPORTANT: Always install tine with cutting edge facing direction of rotor shaft rotation. When ordering replacement tines, be sure to order both right and left hand tines.

1. Remove 2 cap screws and fasteners from tine to be replaced. Remove tine.
2. Install new tine on side of attaching flange as shown.
3. Replace 2 cap screws and fasteners and tighten nuts to proper torque. See the *Torque Values Chart* in the **"Appendix"** section on page 25.

IMPORTANT: Replace tines with genuine Land Pride tines only.

WARNING

Worn tines may be very sharp



Tine Replacement
Figure 4-1

Driveline Protection

Driveline components are protected from shock loads by a friction slip clutch. The clutch must be capable of slippage during operation to protect the gearbox, driveline and other drive train parts.

Friction clutches should be "run-in" prior to initial operation and after long periods of inactivity to remove any oxidation that may have accumulated on the friction surfaces. Repeat "run-in" instructions at the beginning of each season and when moisture and/or condensation seizes the inner friction plates.

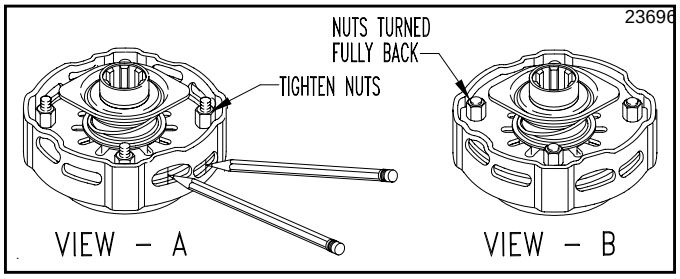
Refer to Figure 4-2 below and Figure 4-3 on page 18 to determine which friction clutch your Rotary Tiller has. Follow run-In, disassembly and assembly instructions for your specific clutch.

Clutches With 4 Adjusting Nuts

Clutch Run-In

Refer to Figure 4-2 (View - A):

1. Using a pencil or other marker, scribe a line across the exposed edges of the clutch plates and friction disks.
2. Tighten all 4 nuts uniformly until spring load is low enough that the clutch slips freely with PTO engaged.



Clutches With 4 Adjusting Nuts
Figure 4-2

3. Start tractor and engage PTO for 2-3 seconds to permit slippage of clutch surfaces. Disengage PTO, then re-engage a second time for 2-3 seconds. Disengage PTO, shut off tractor and remove key. Wait for all components to stop before dismounting from tractor.
4. Inspect clutch and ensure that the scribed markings made on the clutch plates have changed position. Slippage has not occurred if any two marks on the friction disk and plate are still aligned. A clutch that has not slipped must be disassembled to separate the friction disk plates. See "Clutch Disassembly & Assembly" on page 17.

Refer to Figure 4-2 (View - B):

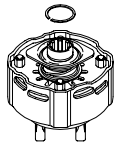
5. Turn all 4 nuts fully back if no two marks on the friction disk and plate are still aligned. Clutch is ready for use.
6. The clutch should be checked during first hour of cutting and periodically each week. An additional set of scribe marks can be added to check for slippage.

Clutch Disassembly & Assembly

If clutch run-in procedure indicates that one or more of the friction disks did not slip, then the clutch must be disassembled to separate the friction disks.

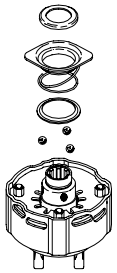
NOTE: Before proceeding, secure clutch firmly in a vise or other clamping device to prevent injury.

Disassembly



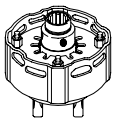
◀ Step 1

Remove snap ring.



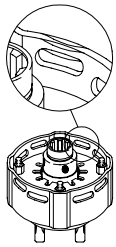
◀ Step 2

Remove backup ring, lock collar, compression spring, bottom backup ring, and balls.



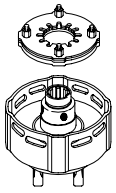
◀ Step 3

Tighten the four hex nuts uniformly until the clutch pack and hub are loose.



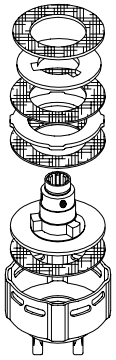
◀ Step 4

Bend all four retaining lugs out on the edge of the clutch housing.



◀ Step 5

Remove the thrust plate with the Belleville Springs and lug rings to access friction disks and hub for inspection or service.



◀ Step 6

Inspect friction disks and hub.

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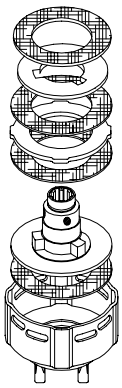
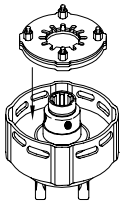
Assembly



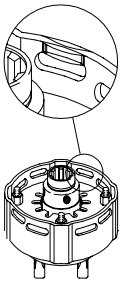
◀ Step 1

Place the hub and friction disks into the housing.



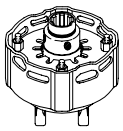
◀ Step 2

Compress the Belleville Springs to the pressure plate by tightening the four hex nuts and then placing the assembly into the clutch housing.



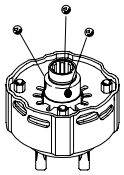
◀ Step 3

Bend the retaining lugs inward over the Belleville Spring edges to secure the spring before backing the four hex nuts off.



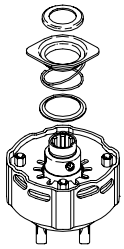
◀ Step 4

With the lugs bent in, loosen the four hex nuts completely to the end of the threaded studs.



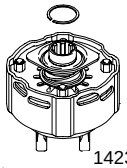
◀ Step 5

Insert greased balls.



◀ Step 6

Install bottom backup ring, compression spring, lock collar, and top backup ring.



◀ Step 7

Install snap ring.

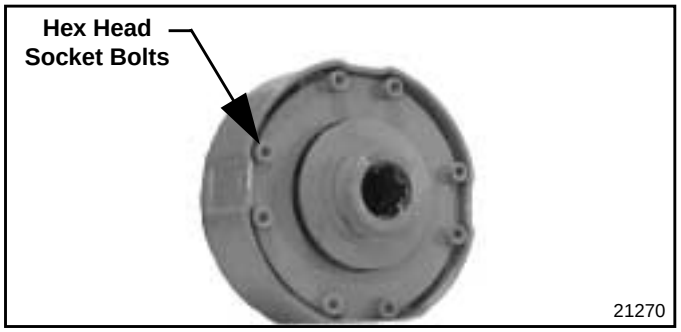
14233

Clutches With 8 Hex Socket Bolts

Clutch Run-In

Refer to Figure 4-3:

1. Loosen counterclockwise all 8 hex head socket bolts uniformly 6 full turns.
2. Cycle clutch on and off 5 or 6 times (15 seconds on and 15 seconds off) with the engine operating at half throttle. Disengage driveline, shut off tractor and remove key. Wait for all components to stop before dismounting from tractor.
3. Tighten hex head socket bolts fully back. Clutch is ready for use
4. The clutch should be checked during the first hour of cutting and periodically each week.



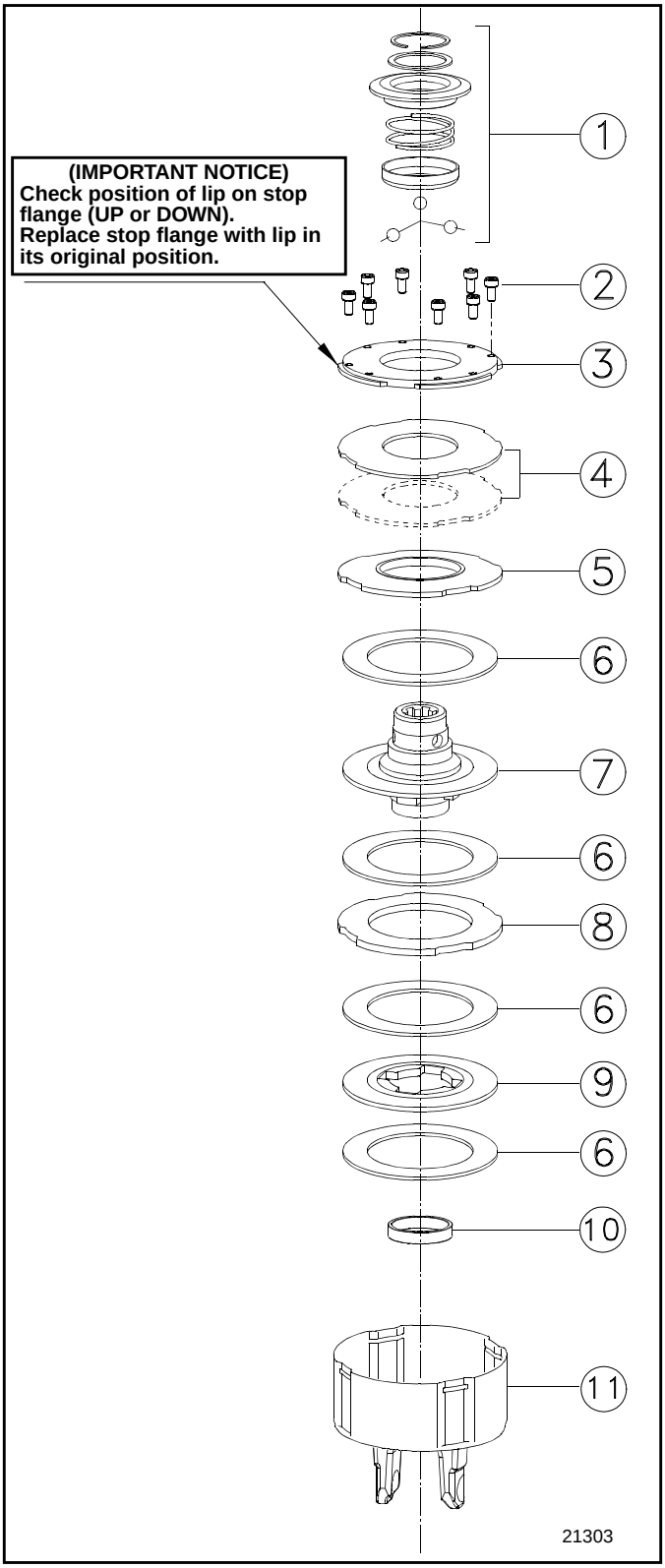
Clutch Run-In With 8- Hex Head Socket Bolts
Figure 4-3

Clutch Disassembly & Assembly

Refer to Figure 4-4:

If clutch run-in procedure above indicated that one or more friction disks did not slip, then the clutch must be disassembled into separate friction disks.

1. Rotate 8 Alan head socket bolts (#2) all the way out to free stop flange (#3).
2. Record position of the lips (up or down) on stop flange (#3) and then rotate flange and remove it.
3. Remove the following inner components:
   a. Spring kit (#4)
   b. Pressure flange (#5)
   c. 1st Friction Disc (#6)
   d. Hub with flange and pull collar (#7 & #1)
   e. 2nd Friction disc (#6)
   f. Intermediary flange (#8)
   g. 3rd Friction disc (#6)
   h. Hub disc (#9)
   i. 4th Friction disc (#6)
   j. Bearing (#10)
4. Inspect all components and replace to their original position. Make certain stop flange (#3) is replaced with its flanges down as shown.
5. Fully tighten all 8 Alan head socket bolts (#2).



Clutch Assembly
Figure 4-4

Storage

Clean, inspect, service and make necessary repairs to the Rotary Tiller when parking it for long periods and when parking it at the end of a working season. This will help ensure that the tiller is ready for field use the next time you hook-up to it.

DANGER

Always disconnect main driveline from tractor PTO and secure tiller in the up position with solid supports before servicing underside of the tiller.

1. Clean off any dirt and grease that may have accumulated on the Rotary Tiller. Scrape off compacted dirt and then wash surfaces thoroughly with a garden hose.
2. Check the tines for wear and replace if necessary. See *Tine Replacement* earlier in this section.
3. Inspect the tiller for loose, damaged or worn parts and adjust or replace if needed.
4. Lubricate as noted in “Lubrication” on page 20.
5. Drain and refill gearbox and chaincase oil. Be sure to replace all oil plugs.
   - Drain oil in gearbox by removing the bottom drain plug or right hand cap.
   - Drain oil in chaincase by removing the bottom plug and tipping tiller backwards.
6. Replace all damaged or missing decals.
7. Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Aerosol Land Pride touch-up paint. They are also available in touch-up bottles with brush, quarts and gallon sizes by adding TU, QT or GL to the end of the Aerosol part number. A coating of oil may be applied to worn surfaces in lieu of painting to minimize oxidation.

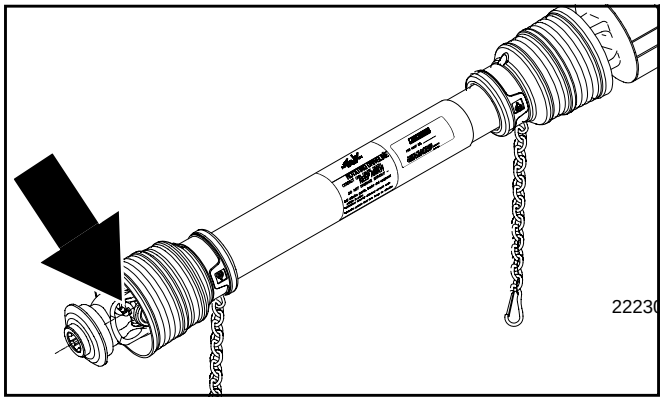
Land Pride Aerosol Touch-up Paint

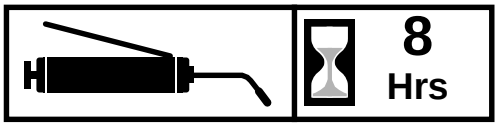
Part No.	Part Description
821-011C	PAINT LP BEIGE AEROSOL SPRAY CAN
821-002C	PAINT LP BLACK AEROSOL SPRAY CAN
821-066C	PAINT ORANGE AEROSOL SPRAY CAN

8. Store tiller on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer tiller life.

Lubrication

Lubrication Legend	Multi-purpose spray lube	Multi-purpose grease lube	Multi-purpose oil lube	20	Intervals in hours at which lubrication is required.



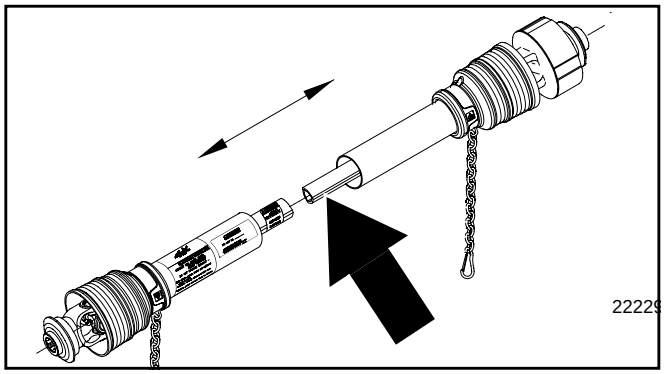


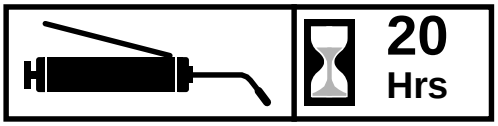
Driveline U-Joint

Coat PTO u-joint with grease every 8 hours of operation.

Type of grease = Multi-Purpose

Quantity = Coat Generously



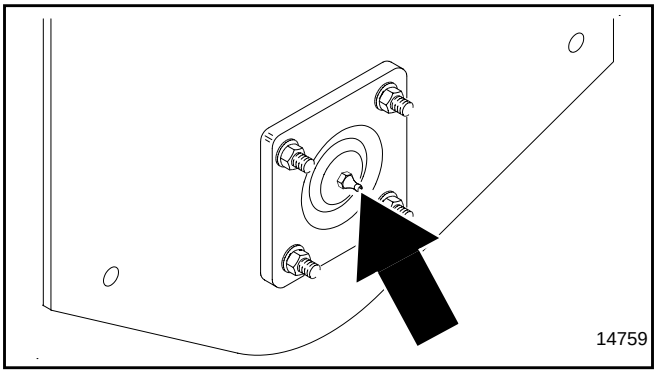


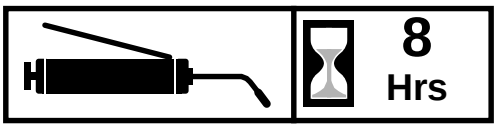
Driveline Shaft

Disconnect PTO shaft from the tractor and slide apart. Clean and coat the inner tube of the PTO shaft with a light film of grease and then reassemble.

Type of grease = Multi-Purpose

Quantity = Coat Generously



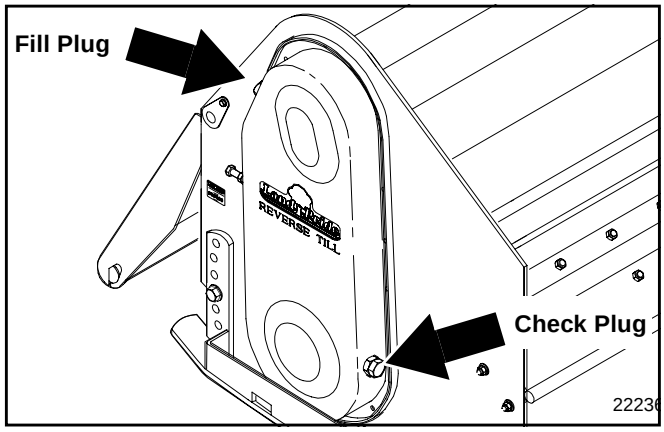


Bearing on Left End of Rotor Shaft

Grease bearing on right end of tines until grease starts to purge from the relief hole in the bearing mount casting on the inside of the tiller end plate.

Type of grease = Multi-Purpose

Quantity = Coat Generously

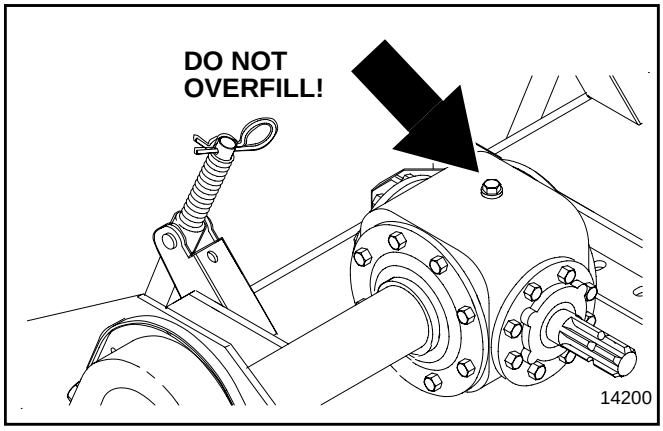


Chaincase

With tiller on level ground, check oil level in chaincase by removing lower plug. Oil should reach the plug hole. Fill if necessary with Shell Alvania EP OO oil and retighten plug. Tiller should be level when checking.

Type = Recommended: Shell Alvania EP00 Oil

Quantity = As required



Gearbox

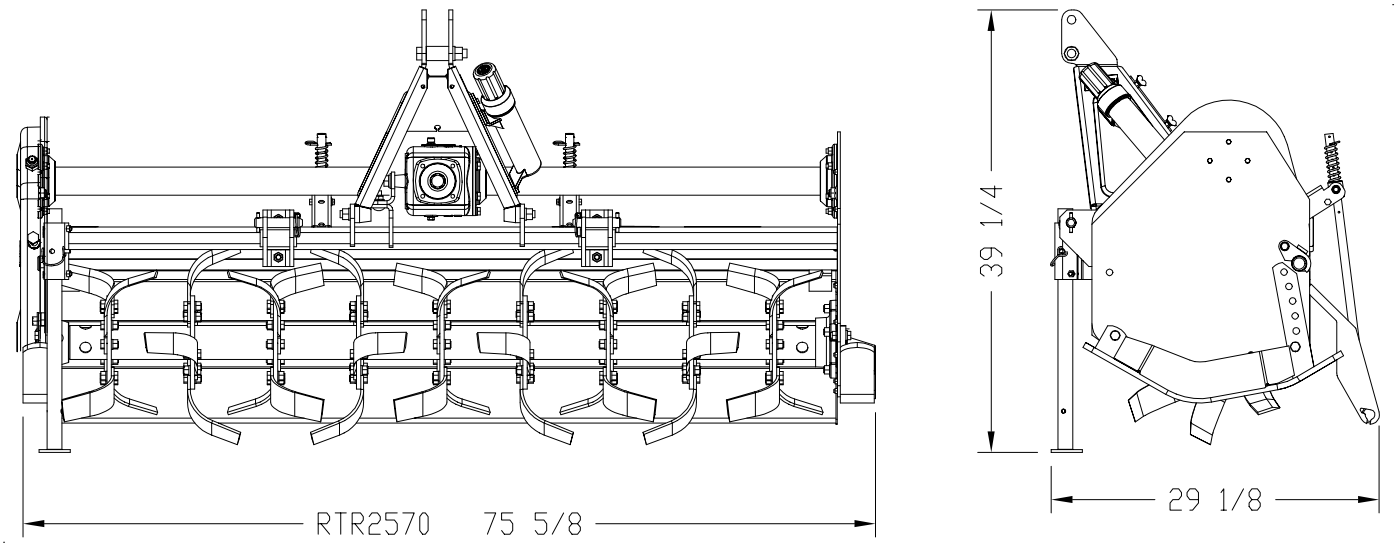
Check the oil level in the gearbox by removing the oil fill dipstick located on top of the gearbox. Fill if necessary with gear lube 80-90W EP and retighten plug.

IMPORTANT: Should your gearbox require repair, take it to your Land Pride Dealer! Check the oil level in the gearbox at least every 50 hours of operation.

Type of lubrication = Gear Lube 80-90W EP

Quantity = As required

RTR2570 Model	
Hitch	Category 1
Width	70”
Overall Width	76”
Weight	868#
Number of Flanges	9
Number of Tines per Flange	6
PTO Driveline	ASAE Category III Heavy Duty Friction Clutch-Standard
Gearbox	45 HP Input at 540 rpm 1.92:1 Ratio Cast Iron Housing, Straight Bevel Gears
Gearbox Lubrication	Gear Lube 80-90W EP
Drive Chain	#100 roller chain in flowable grease bath
Drive Chain lubrication	Shell Alvania EP 00
Sprockets	Splined Bores
Rotor Swing Diameter	17"
Rotor Shaft Speed	220 rpm at 540 rpm PTO



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RTR2570 Model

Features	Benefits
American made	Many tillers are imported. American made means better parts availability.
Tractor HP rating	25-55 HP
Gearbox Warranty	3 Years on housing, gears, shafts, seals, bearings. Shows our confidence in the product.
Fits Land Pride Quick-Hitch	Allows for quick and easy one person hook-up. Cannot be used with offset.
Reverse tilling action	Reverse action 'sucks' tiller into ground, does not walk on top of hard ground like forward rotation tillers can.
Offset capability	Offset 5" by moving lower hitch points, allows to cover right tire track.
Parking stand	Allows for easy hook-up and storage.
Stamped top hitch	Stamped plate adds additional strength to hitch.
Hitch bolted to inside of support	Force is applied downward on top hitch, by bolting hitch to inside of support, keeps hitch from spreading outward.
Six tines per flange	Six tines go through the ground better than four.
17" Rotor swing diameter	For deep tilling action.
Double lip seal on rotor bearing	Double lip seal keeps the dirt out and the grease in.
#100 Drive chain enclosed in oil bath	Heavy-duty drive chain reduces stretching. Oil keeps constant lubrication and holds wear to a minimum.
Easy to adjust chain tightener	Cast iron chain tightener is a simple bolt adjustment to keep constant tension on the chain.
Adjustable skid shoes	Control depth from various settings.
Stamped chain cover	Stamped forming adds additional strength.
Wear shield on left skid shoe	Shield protects lower portion of chain cover from wearing due to dragging in the soil.
Cat. 3 driveline with slip-clutch	Standard heavy driveline for rough conditions. Slip-clutch protects other drive train components.
Spring tines behind tilling action	Spring tines sift the material letting bigger items fall first. Sifted soil falls last burying the bigger items.
Formed rear deflector with springs	Formed steel gives the rear deflector additional strength. Springs allow deflector to bounce as it hits obstructions.
Front deflector plate	Front deflector plate is flexible to take the beating rocks or debris will give it.

Problem	Cause	Solution
Machine makes intermittent clicking noise	Loose tines	Tighten tines
	Gearbox tooth damaged	Replace damaged gear
	Chain damaged	Replace damaged chain link
PTO vibrates	Worn universal joint	Replace universal joint
	Excessive trash wrapped on rotor	Remove trash
	Machine lifted too high	Lower machine and readjust tractor lift stop
Gearbox noise is noticeable and constant	May be normal on new machine	Allow time for break-in
	Low oil level	Add oil
	Worn gears	Replace gears
Oil leaking from gearbox	Damaged seals or gaskets	Replace seals or gaskets
	Gearbox overfilled	Drain to proper level
Rotor will not turn	PTO not engaged	Engage PTO
	Broken drive chain	Repair drive chain
	Friction clutch slipping	Reduce load to tiller
Tillage depth insufficient	Tiller carried by tractor	Lower tractor 3-point arms
	Insufficient power	Increase tractor rpm
	Skid Shoes need adjusting	Adjust skid shoes
	Worn or bent tines	Replace tines
	Tines incorrectly installed	Check tine placement
	Obstacles entangled in tines and/or rotor	Clear rotor and/or tines
	Lower hitch clevises on tiller in wrong position	Relocate lower hitch clevises
Soil texture too coarse	Leveling door too high	Lower leveling door
	PTO speed too slow	Increase PTO speed
	Ground speed too fast	Decrease ground speed
Soil texture too fine	Leveling door too low	Raise leveling door
	Ground speed too slow	Increase Ground Speed
Machine skips or leaves crop residue	Badly worn tines	Replace worn tines
	Friction clutch slipping	Reduce load
	Ground speed too fast for conditions	Reduce ground speed
Tines balling up with soil	Worn or bent tines	Replace tines
	Tines incorrectly installed	Install tines correctly
	Rear deflector too low	Raise rear deflector
	Tractor speed too fast	Decrease tractor speed
	Soil too wet	Wait until soil dries
Tiller bumping on ground	Obstacles entangled in tines and/or rotor	Clear rotor and/or tines
	Tines not installed correctly	Install tines correctly

Torque Values Chart

Bolt Size (inches)	Bolt Head Identification: Grade 2		Grade 5		Grade 8	
in-tpi [1]	N·m [2]	ft-lb [3]	N·m	ft-lb	N·m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1 1/8" - 12	540	395	1210	890	1960	1440
1 1/4" - 7	680	500	1520	1120	2460	1820
1 1/4" - 12	750	555	1680	1240	2730	2010
1 3/8" - 6	890	655	1990	1470	3230	2380
1 3/8" - 12	1010	745	2270	1670	3680	2710
1 1/2" - 6	1180	870	2640	1950	4290	3160
1 1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (Metric)	Bolt Head Identification: 5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x pitch	N·m	ft-lb	N·m	ft-lb	N·m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	l215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[1] in-tpi = nominal thread diameter in inches-threads per inch

[2] N· m = newton-meters

[3] ft-lb= foot pounds

[4] mm x pitch = nominal thread diameter in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Notes

Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit and Driveline: One year Parts and Labor

Gearbox: 3 years on Housing, Gears, Shafts, Bearings and Seals

Tines and Driveline Friction Discs: Considered wear items

This Warranty is limited to the replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items such as blades, belts, tines, etc. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in
material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty must be made to the dealer which originally sold the product and all warranty adjustments must be made through such dealer. Land Pride reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of purchase by the end user.

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